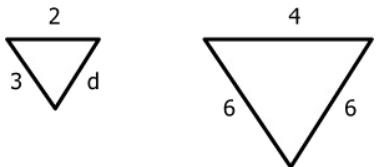


Math Geometry and Measurement 8_6

Student Name: _____

Date: _____

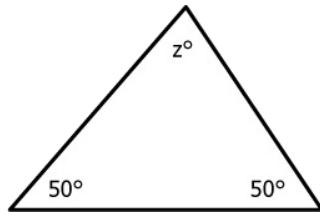
1.



These triangles are similar.

$$d = \underline{\hspace{1cm}} \text{ units}$$

2.



$$m\angle z = \underline{\hspace{1cm}}$$

A. 5

B. 3

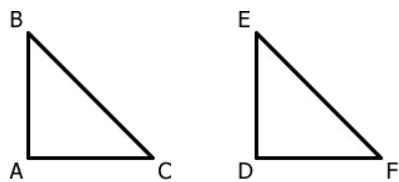
C. 2

A. 120°

B. 80°

C. 100°

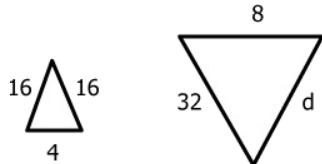
3.



ABC and DEF are congruent.

$$BC = \underline{\hspace{1cm}}$$

4.



These triangles are similar.

$$d = \underline{\hspace{1cm}} \text{ units}$$

A. DF

B. EF

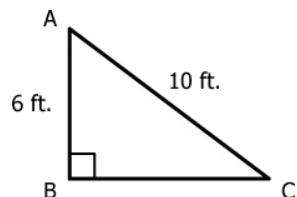
C. DE

A. 32

B. 28

C. 16

5.



$$(AB)^2 + (BC)^2 = (AC)^2$$

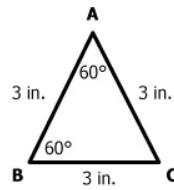
$$BC = \underline{\hspace{1cm}} \text{ ft.}$$

A. $\sqrt{64}$

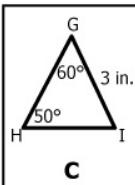
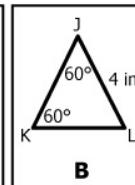
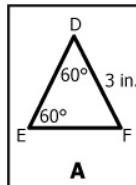
B. $\sqrt{136}$

C. $\sqrt{36}$

6.



Which is congruent to this triangle?

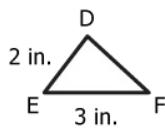
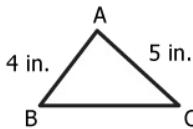


A. A

B. B

C. C

7.



Triangle ABC is similar to Triangle DEF

AC is in. longer than DF.

A. 5

B. 2.5

C. 2

8.

$$A^2 + 4^2 = 5^2$$

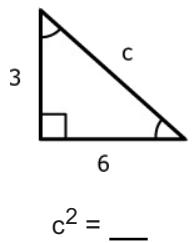
$$A = \underline{\hspace{1cm}}$$

A. 9

B. 6

C. 3

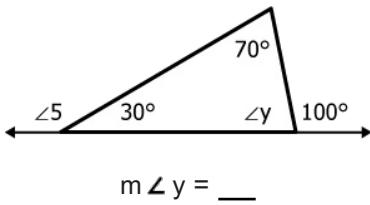
9.



$$c^2 = \underline{\hspace{1cm}}$$

- A. $3^2 \times 6^2$
 B. $3^2 + 6^2$
 C. $3^2 - 6^2$

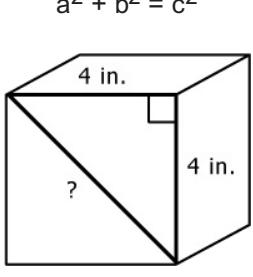
10.



$$m\angle y = \underline{\hspace{1cm}}$$

- A. 80°
 B. 90°
 C. 180°

11.

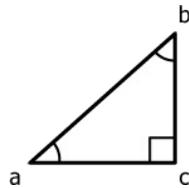


$$\text{?} = \underline{\hspace{1cm}} \text{ in.}$$

$$a^2 + b^2 = c^2$$

- A. $\sqrt{8}$
 B. $\sqrt{36}$
 C. $\sqrt{32}$

12.

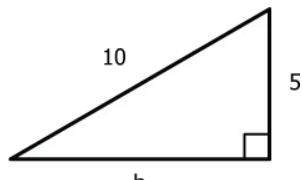


$$m\angle a + m\angle b + m\angle c = \underline{\hspace{1cm}}$$

- A. 90°
 B. 180°
 C. 100°

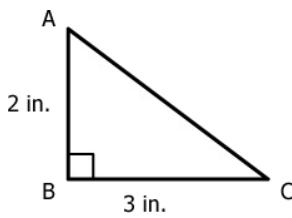
13.

$$a^2 + b^2 = c^2$$



$$b = \underline{\hspace{1cm}}$$

14.



$$(AB)^2 + (BC)^2 = (AC)^2$$

$$AC = \underline{\hspace{1cm}} \text{ in.}$$

A. $\sqrt{75}$

B. $(100 - 5)^2$

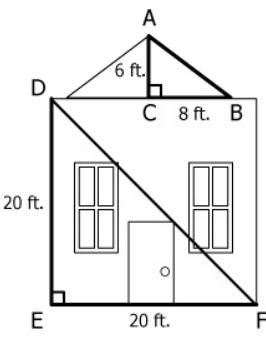
C. 75^2

A. $\sqrt{13}$

B. $\sqrt{4}$

C. $\sqrt{8}$

15.



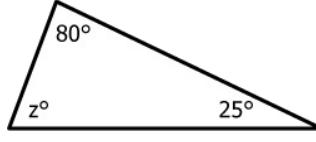
$$DF = \underline{\hspace{1cm}} \text{ ft.}$$

A. $\sqrt{800}$

B. $\sqrt{400}$

C. $\sqrt{40}$

16.



$$m\angle z = \underline{\hspace{1cm}}$$

A. 75°

B. 90°

C. 105°